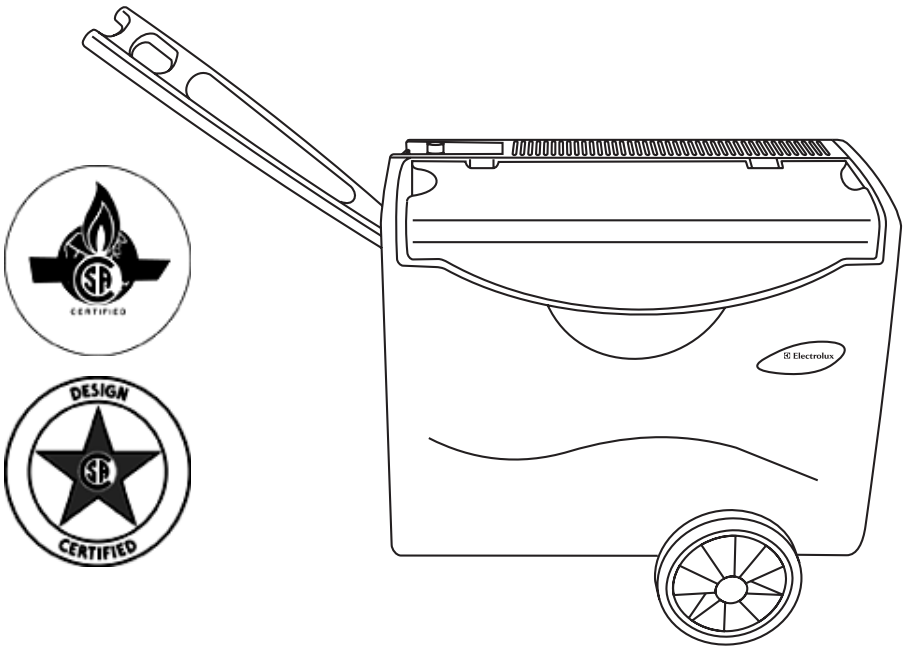
Dometic

PowerFridge

RC3000



USA
CAN

Operating Instructions

207.5141.01

Please read these operating instructions carefully before putting the refrigeration unit into operation. If you later sell or dispose of it, please ensure that the new owner receives these operating instructions.

Thank you for choosing our appliance. We are sure it will provide you with trouble-free use.

In the following, we would like to familiarise you with some symbols, which we bring to your attention to ensure the safe and efficient operation of the appliance:

source of danger, in event of improper operation

suggested useful tips to read

information concerning environmental protection

This refrigerator is to be operated by HD-5 Propane Gas and electricity (12 V dc and 120 V ac).

Attention!

Your portable refrigerator - **in gas operation** - must only be used in a well-ventilated place, where it is protected from rain or water splashes. **In electrical operation**, the appliance can be used in an enclosed area. However the appliance must still be protected from moisture.

For your safety!

If you smell gas:

1. Evacuated enclosure 2. Call for professional help.

For your safety!

Do not store or use gasoline or other flammable vapors and loquids in the vicinity of this or any other appliance.

Warning!

This refrigerator consumes air (oxygen). Provide ample ventilation especially when sleeping. Do not use this refrigerator in unventilated structures to avoid endangering your life. Provide additional ventilation for any additional fuel burning appliances and additional occupants.

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1. Unpacking

After removal from the cardboard packaging, make sure the appliance is not damaged. If you find damage to the appliance resulting from transport, report it immediately to the transportation firm.

2. View of the appliance

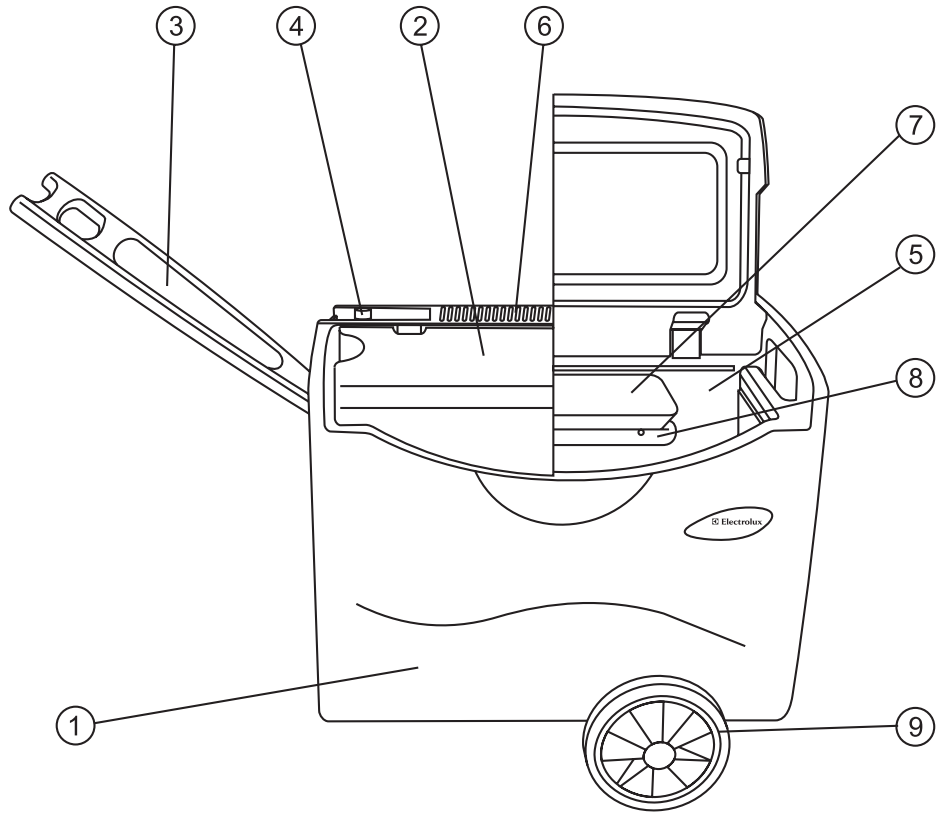

Figure 1.

1. insulated casing
2. insulated lid
3. handle
4. control panel
5. evaporator panel
6. rear cover
7. ice tray
8. ice-tray shelf
9. wheels

3. Cleaning

Clean both the inside and outside of the appliance before putting it into use.

- To do so, use a soft towel, lukewarm water and a non-abrasive detergent. Ensure water does not enter the rear cover grille or the control elements.
- Afterwards, wipe the appliance with a clean towel and clear water, and then wipe it dry.
- To avoid damage, do not use soap, soda or abrasive cleaners.

4. Installation:

The installation of the refrigerator must conform with the following Americal National Standards as applicable: ANS Z21.74b - 1992 Portable Refrigerator; in Canada: CAN1-11.4-M79.

For installation, for maintaining proper clearances from combustible material to the refrigerator, the following minimum clearances must be observed:

clearance from rear edge to outer casing of refrigerator: 4 inches

clearance above top of refrigerator lid: 6 or 13 inches

clearance at sides of refrigerator casing: 0 inches

See that the refrigerator is standing level in both directions by means of a spirit level. This is important for satisfactory operation of the cooling unit.

The absorption cooling unit is cooled by convection air and therefore it is of the outmost importance that the air circulates free over the unit and that the air vent openings of the refrigerator are always kept open. The more ventilation you provide, the better the performance you can expect from the refrigerator.

NOTES: KEEP APPLIANCE AREA CLEAR AND FREE FROM COMBUSTIBLE MATERIALS, GASOLINE AND OTHER LIQUIDS WITH FLAMMABLE VAPORS.

DO NOT OBSTRUCT THE FLOW OF COMBUSTION AND VENTILATION AIR.

5. Using the appliance

The cable for mains connection, the 12V connecting cable and the connector for the gas hook-up are located on the right-hand side of the rear cover of the cooling box, behind the door (Figure 2).

Figure 2.

5.1. Operating from electrical mains

Warning: Electrical grounding instructions:

This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazards and should be plugged directly into a properly grounded three-prong receptable. Do not cut or remove the grounding prong from this plug.

The cord is approximately 5 feet long and a grounded three-prong receptable should be installed in an accessible position within reach of the plug. Do not use any extension cords!

When connecting the appliance for the first time, set the thermostat to maximum; then, after about five hours, set it back to a medium position. This is suitable for general refrigeration requirements.

NB: Plug is provided according to specific regulations in each country and may be different to that shown.

5.2. Operating from vehicle battery

Make sure the voltage shown on the data plate of the appliance matches the voltage of the vehicle battery (12V).

12V DC voltage appliances are equipped with connectors that can be plugged into cigarette lighters (Figure 3.). For some types of vehicle, you may need to remove the red plastic ring located on the end of the connector. To do so, turn the plastic ring in an anti-clockwise direction and pull it off. The appliance can then be connected to the cigarette lighter. In 12V operation, the appliance runs uninterrupted without temperature control.

For 12V operation, make sure, if the engine is not running, that the appliance connector is removed from the cigarette lighter. Otherwise, the appliance will discharge the vehicle battery when in operation.

5.3. Liquid gas operation

Connection to the gas cylinder is described in sections 11.3. and 11.4.

After opening the gas cylinder valve, push the safety gas valve down (Figure 4) and set it to the large flame symbol, holding it down for about 10 seconds. Keep the button pressed down and press the piezo-igniting button (marked with a star) several times one after the other. If the flame does not ignite, repeat the process. (Air in the appliance gas line prior to connection to the gas cylinder must be evacuated. Only then can the gas be lit.)

Ignition of the flame can be verified through the flame-view opening (Figure 5). After you have got the flame keep the safety gas valve down another 20 seconds.

If, for any reason, the gas flame extinguishes, the flame safety device is working automatically and shuts off gas supply. While the button is pushed, this device is temporary inoperative.

Figure 3.

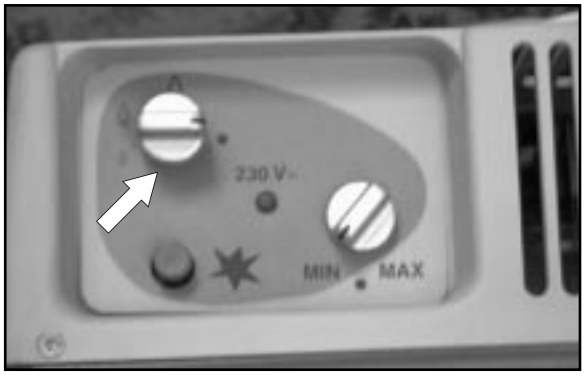

Figure 4.

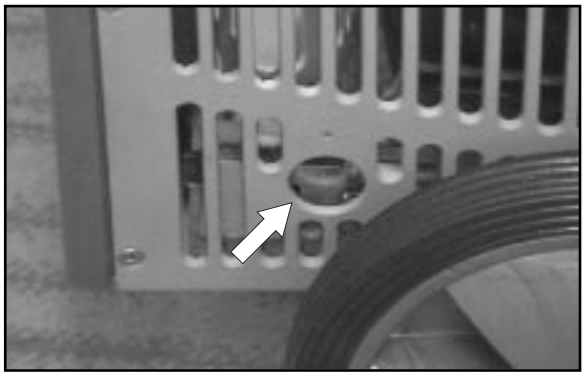

Figure 5.

6. Mounting the wheels

The wheel set, found inside the appliance, consists of the following parts:

- 2 wheels
- 1 axle
- 1 axle-retaining screw
- 1 pull handle
- 1 handle fastener
- 2 screws for the pull handle

First mount the two wheels on the axle. To do so, press in the spring located on the wheel (Figure 6); then release the spring, pushing the wheel onto the axle. It can be felt when the spring jumps into place and it is not possible to pull the wheel from the axle.

Figure 6.

After mounting the wheels, fasten the axle to the bottom of the housing. To do so, turn the appliance upside down (while empty) and fasten the axle with the retaining screw (Figure 7).

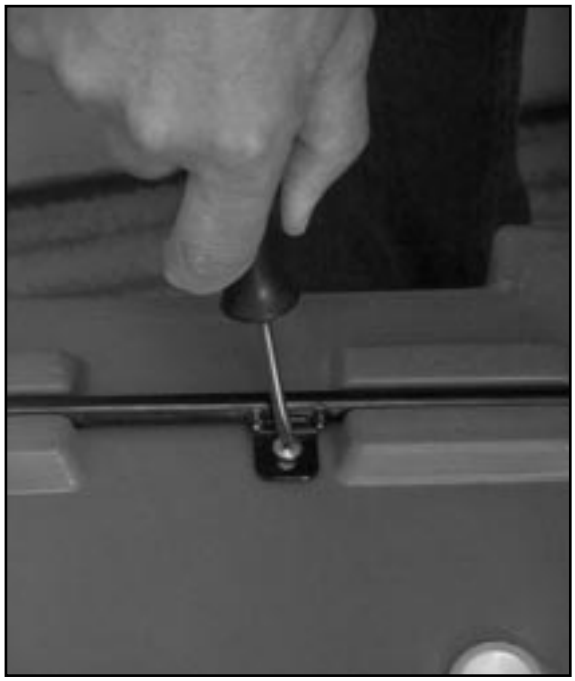

Figure 7.

To mount the pull handle, turn the appliance (while empty) on its end. Position the pull handle below the handle fastener, so that its smooth surface is on the outside. Screw the handle fastener to the chassis using both screws (Figure 8).

Snap the pull handle into the fastener groove, folding it down beside the chassis. In this position, it acts as a leg when the appliance is in operation.

If you wish to pull the appliance on wheels, make sure no power source is connected. Then straighten up the pull handle and pull the appliance to its new location.

When loading onto a vehicle, the wheels and handle are removed in reverse order (if required for better use of space). The appliance must be empty to carry out these processes.

Figure 8.

7. Making ice

The ice-tray holder and ice-tray accessories delivered with the appliance allow ice cubes to be made. To do so, first insert the ice-tray holder panel into the groove of the plastic holder. Make sure the perforated part of the panel enters the groove (Figure 9).

Next, fill the ice tray with water (up to about 4 mm below the edge) and put on the cover.

Figure 9.

Place the ice tray on the ice-tray holder panel, so that its outer edge is below the edge of the plastic cover (Figure 10). This prevents the ice tray from falling from the holder when the vehicle is in motion.

The plastic cover of the ice-tray holder is not completely watertight when fastened. For this reason, a few drops of water may come from the ice-tray holder. This is not unusual and does not cause any problem.

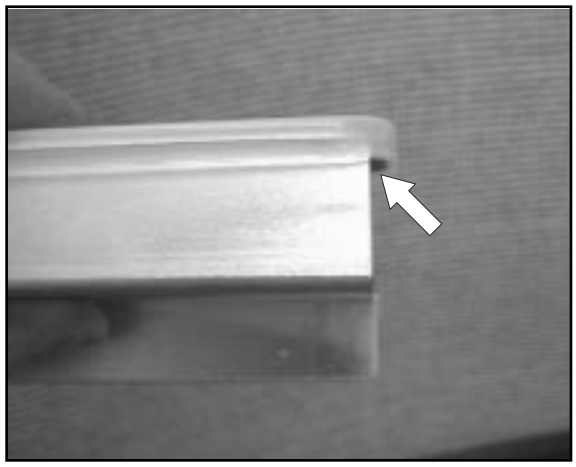

Figure 10.

8. Useful suggestions

- When setting out on a trip, run the appliance on 230 V for 24 hours. Place food in a pre-cooled condition into the appliance.
- Determine the requirements for making ice and either set up the ice-tray holder or remove it *before* plugging in the refrigeration unit. (Because of frost formation, this may be more difficult to accomplish later.)
- Frost forms on the evaporator panel when in operation. When opening the cover or putting in food, some of this frost melts and collects in the form of water on the bottom of the appliance. Wipe the water off occasionally using a sponge.
- Avoid putting foods with fragile packaging (such as glass) into the refrigeration unit, if you wish to pull it on its wheels. Movements and shaking of the unit may cause these items to break.
- On descent, make sure the refrigeration unit does not roll onto your legs. On steep descents, proceed behind the unit with the wheels in front.
- Once the refrigeration unit is in its permanent position, make sure foods do not come into contact with the evaporator panel, as this can cause freezer-burn to the foods.

9. Defrosting, cleaning and maintenance

For defrosting, always unplug the appliance from an electrical power source to avoid the risk of shock. Make sure no other power source is connected (gas or 12V). Remove food from the refrigeration unit and leave the lid open. Depending on the temperature, frost melts in a short time from the evaporator panel, with water collecting at the bottom of the appliance. Wipe it off using a towel. Afterwards, clean the appliance by following the instructions in section 3. Leave the lid ajar to prevent any odours from forming. The appliance does not require any further maintenance.

10. Customer service

Before notifying customer service, please check the following:

- Are location and ventilation satisfactory?
- Does the appliance stand evenly?
- Is there a current in the wall socket and is the connection suitable for the appliance?
- Is the mains power cable damaged?
- For mains operation, is the electric thermostat swiched on?
- For gas operation, was the safety valve knob pressed down long enough?
- Is the safety valve knob set towards the large flame symbol?
- Is the gas cylinder or the pressure regulator valve open?
- Is there any gas in the cylinder? (If by shaking, no liquid movement can be detected, then the cylinder is empty.)
- Are by any chance two different power sources connected (such as gas or electricity)?
- Was warm food placed in the unit?
- Was a large quantity of food put in at one time?

If after checking the above, the appliance still does not operate properly, contact customer service. When reporting the problem, state the type of problem, the type of appliance, and the product number and serial number from the data plate.

We assume the warranty in accordance with our warranty assumptions for the appliance.

11. Putting into operation

⚠ You must, in all instances, operate the appliance from a single energy source only. Connecting several energy sources at the same time will cause failure of the appliance.

Technical data:

Model	RC 3000
Type	JCB 4
Gross volume	35 litre
Mains operation	120V (AC)
Input	80W
Energy consumption	1.4 kWh/24h
Battery operation	12V (DC)
Input	80W
Energy consumption	160Ah/24h
Gas pressure (p)	11" WG
Gas classification	Propane
Jet size	21
Climate class	N
Refrigerant	370g NH_3 Absorption

11.1 Connecting to electrical mains

Make sure no other energy source is connected (gas, 12V).

The appliance may only be operated from nominal voltage mains as shown on the data plate. The appliance mains plug may be connected to a mains socket earthed in accordance with regulations. (In foreign countries, because of other electric receptacles, an adapter may be required.)

11.2 Connecting to vehicle power source

Make sure no other energy source is connected (gas, 230V).

12V appliances must be connected to a vehicle cigarette lighter, which is protected with a 16A fuse.

11.3 Connecting to gas cylinder

Make sure no other energy source is connected (230V, 12V).

This refrigerator is designed for self-contained fuel cylinder of not more than 75 cubic inches (2 ″ pounds nominal water capacity). The cylinder(s) must be constructed and marked in accordance with the specifications for LP-gas cylinders of the U.S. Department of Transportation (DOT), DOT SPEC. 89 (49CFR 178.65), in Canada, with the ministry of transport and communication.

The refrigerator may only be operated by a self-contained 14 oz propane HD5 gas bottle, which is to be connected to the refrigerator by means of the supplied manual control valve and the pressure regulator with hose. The gas burner is fitted with a jet Nr. 21 which is suitable for use on Propane gas at a supply pressure of 11 inches water gauge.

11.4 Connection of gas supply (Fig.11)

a. fit the manual control valve (Fig.11.1) with pressure regulator (Fig.11.2) and hose finger tight to the self contained 14 oz gas cylinder (Fig. 11.3)

b. connect the gas hose to the inlet (Fig. 11.4) at he back of the refrigerator.

c. put the gas bottle assembly about 10" from the refrigerator.

After connecting all gas connections must be checked for leaks. For this put a soapy solution on all gas connections, turn on the gas cylinder manual valve and watch for bubbles.

For the detection of leaks never use an open flame.

If the gas bottle is empty withdraw it from the bottle holder, unscrew the manual control valve / pressure regulator-assemly from the bottle and refit a new one.

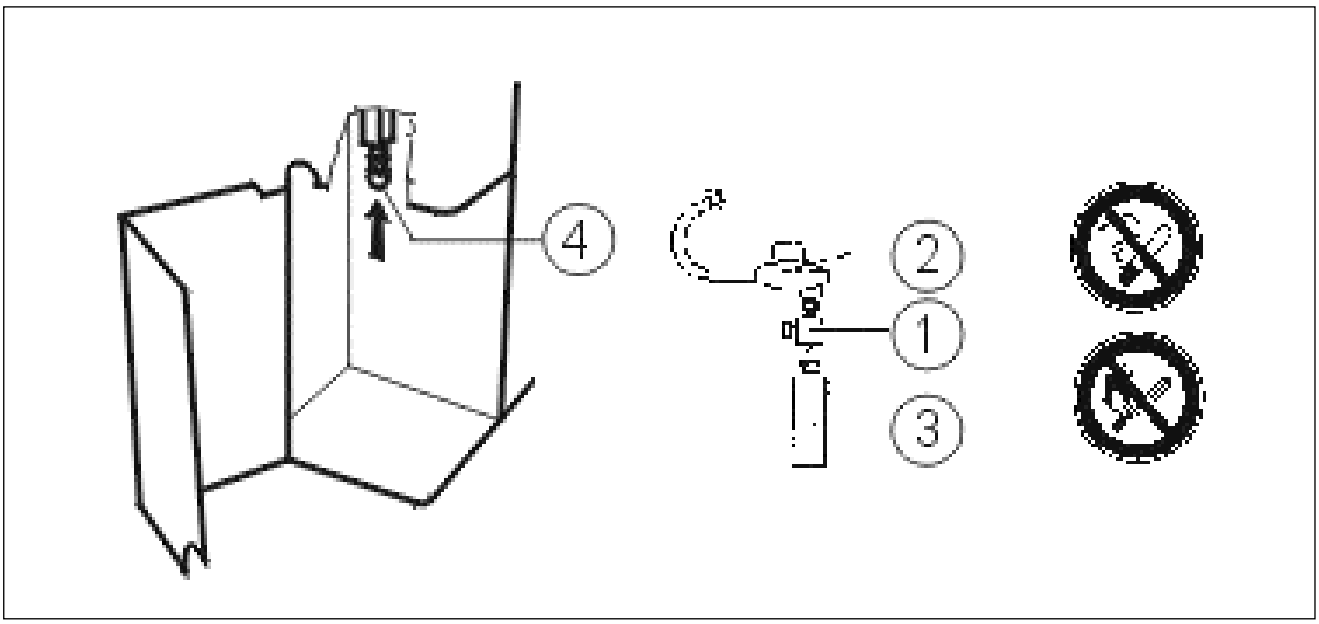

Figure 11.

For your safety:
Do not check for leaks with a naked flame! Do not smoke while checking for leaks!

12. Environmental protection information

The appliance does not contain any CFCs.

Ammonia (natural hydrogen and nitrogen compound) is used as a refrigerating agent in the refrigeration unit.

The ozone-friendly cyclopentane is activated as a motive agent for the PU foam insulation.

13. Recycling

After unpacking the appliance, the packing materials should be delivered to a local collection site. At the end of its useful lifetime, the appliance should be delivered to a specialised collection and reprocessing firm, which reclaims the usable materials. The rest is properly destroyed.

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